

Proximity Magnetic Sensors Explosive Environment Sensors MQ Series

CARLO GAVAZZI



- Rectangular plastic housing
- NO, CO or NC output functions
- Miniaturized reed contacts
- Small dimensions

Product Description

The proximity magnetic sensors of this series are based on a miniature reed contact in rhodium. In particular, all of them are suitable for

explosive environments and are certified according to the ATEX Directive 1994/9/EC.

Ordering Key

MQ A 1 EX

Type _____
Output function _____
Reed contact type _____
Atex approval _____

Type Selection

Housing dimensions	Connection	Output function	Reference
37 x 16 x 8.3	PVC cable L= 2m, 2 wires	NO	MQ A 1 EX
37 x 16 x 8.3	PVC cable L= 2m, 2 wires	NC	MQ C 1 EX
37 x 16 x 8.3	PVC cable L= 2m, 2 wires	NO	MQ A 0 EX
37 x 16 x 8.3	PVC cable L= 2m, 3 wires	CO	MQ S 1 EX

Dimensions are specified in millimeters (mm)

Output Specifications

Output	
MQA1EX, MQA0EX	NO
MQC1EX	NC
MQS1EX	CO
Contact ratings	
Max Switching Voltage	
MQA1EX, MQA0EX, MQC1EX	230 VAC
MQS1EX	150 VAC
Max Switching Current	
MQA1EX, MQA0EX, MQC1EX	0.75 A
MQS1EX	0.25 A
Max Switching Power	
MQA1EX, MQA0EX, MQC1EX	10 VA
MQS1EX	5 VA / 3 W

General Specifications

Operating distance	See Operating Distance table
Suitable magnetic unit	See Operating Distance table
Operating temperature	-20 to +60 °C
Degree of protection	IP 67
Housing	
Dimensions	37 x 16 x 8.3 mm
Material	Autoextinguishing polypropylene with 30% fiber glass
Approvals	ATEX
CE-marking	Yes

Operating Distance

Magnetic Units	CL1	CL2	CL3	CL4
MQA1EX, MQA0EX, MQS1EX	10	15	22	35
MQC1EX	7/2*	13/5*	17/7*	30/15*

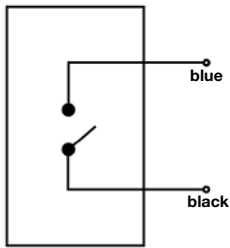
Distances are specified in millimeters (mm)

xx/xx: operating distance (for all Output functions); xx/xx*: reswitching contact distance.

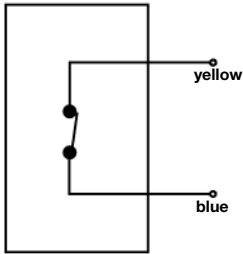
Outside the above mentioned range, the sensor maintains the initial state.



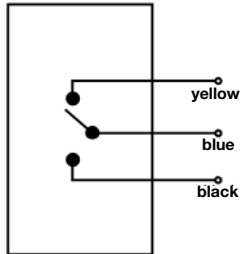
Wiring Diagrams



Output function NO



Output function NC



Output function CO

Dimensions

